

Appln. No. 10/615,314

Attorney Docket No. 8627-233
(PA-5246-RFB/DIV)**I. Listing of the Claims:**

1. – 34. (Cancelled)

35. (Original): A catheter system comprising:

a catheter having a distal end, a body portion having at least one lumen with an inside surface extending through the body portion in a longitudinal direction from a proximal end toward the distal end, and at least one central member for coaxial advancement through said lumen, which body portion is made of a multiple filament helically wound row of wires, wherein said row of wires has a pitch angle in the range of 26° to 76°, and wherein said inside surface of said body portion is mainly undeformable by the central member.

36. (Cancelled)

37. (Original): A delivery system comprising:

a delivery device with a distal end and a shaft portion with a lumen extending in a longitudinal direction from a proximal end and toward the distal end, a self-expandable prosthesis arranged in a receptacle at the distal end of the delivery device, and a pusher member arranged in the lumen of said delivery device to cause relative axial movement of the self-expandable prosthesis with respect to the delivery device, said shaft portion of said delivery device comprising a first helically wound multiple filament row of wires.

38. – 39. (Cancelled)

40. (New): A catheter system as in claim 35, wherein said row of wires has a pitch angle in the range of 35° to 40°.

41. (New): A catheter system as in claim 35, wherein said row of wires has a pitch angle in the range of 40° to 65°.

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42. (New): A catheter system as in claim 35, wherein said row of wires has a pitch angle in the range of 70° to 76°.

43. (New): A catheter system as in claim 35, wherein said body portion is made of between 2 and 12 filaments helically wound to form the row of wires.

44. (New): A catheter system as in claim 35, wherein said body portion is made of between 4 and 8 filaments helically wound to form the row of wires.

45. (New): A catheter system as in claim 35, wherein at least a portion of the body portion is provided with a coating of elastic material.

46. (New): A catheter system as in claim 45, wherein the coating of elastic material is a low-friction coating.

47. (New): A delivery system as in claim 37, wherein said self-expandable prosthesis is radially compressed when arranged in the receptacle.

48. (New): A delivery system as in claim 37, wherein said shaft portion of said delivery device comprises between 2 and 12 helically wound filaments wound to form the row of wires.

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49. (New): A delivery system as in claim 37, wherein said shaft portion of said delivery device comprises between 4 and 8 helically wound filaments wound to form the row of wires.

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